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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1805.0013002/MAC/MPTAPPLICATION NO.
10/052,545APPLICANT
Wikberg et al.FILING DATE
January 23, 2002GROUP
To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CW	AA1	5,280,112	01/18/1994	Cone et al.	536	23.5	04/10/1992
	AB1	5,532,347	07/02/1994	Cone et al.	536	23.5	04/10/1992
	AC1	5,554,729	09/10/1996	Cone et al.	530	350	06/15/1993
	AD1	5,622,860	04/22/1997	Yamada et al.	435	752.3	02/17/1994
	AE1	5,710,265	01/20/1998	Yamada et al.	536	23.5	06/27/1996
	AF1	5,773,229	06/30/1998	Cone et al.	435	7.21	06/07/1995
	AG1	5,837,521	11/17/1998	Cone et al.	435	340.1	04/08/1993
	AH1	5,849,871	12/15/1998	Cone et al.	530	350	06/06/1995
CW	AI1	6,100,048	08/08/2000	Cone et al.	435	7.21	09/04/1996
	AJ						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
CW	AL1	WO 93/21316	10/28/1993	WIPO (original w/corrected version attached)			Yes No
an	AM1	WO 94/04674	03/03/1994	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CW	AR	1	Burchill, S.A., et al., "Tyrosinase Synthesis in Different Skin Types and the Effects of α -Melanocyte-Stimulating Hormone and Cyclic AMP," <i>J. Invest. Dermatol.</i> 95:558-561, Williams & Wilkins Co. (1990).
	AS	1	Chhajlani, V., et al., "Molecular cloning and expression of the human melanocyte stimulating hormone receptor cDNA," <i>FEBS Lett.</i> 309:417-420, Elsevier Science B.V. (September 1992).
an	AT	1	Chhajlani, V., et al., "Molecular Cloning of a Novel Human Melanocortin Receptor," <i>Biochem. Biophys. Res. Comm.</i> 195:866-873, Academic Press, Inc. (September 1993).

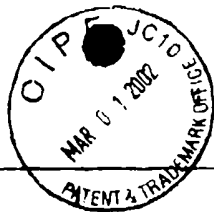
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Chen M. K. A.

DATE CONSIDERED

10/28/03

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January 23, 2002GROUP
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To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ck	AR	2	Clark, W.G., et al., "Analysis of the Antipyretic Action of α -Melanocyte-Stimulating Hormone in Rabbits," J. Physiol. 359:459-465, Cambridge University Press (1985).
	AS	2	Database EMBL, Accession No. L06155, Gantz, I., et al. (February 1993).
ck	AT	2	Database EMBL, Accession No. X70667, Roselli-Reh fuss, L., et al. (August 1993).

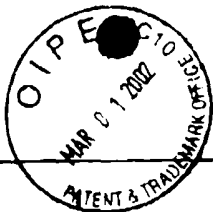
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ATTY. DOCKET NO.
1808.0010002/MAC/MBTAPPLICATION NO.
10/052,545APPLICANT
Wikberg et al.FILING DATE
January 23, 2002GROUP 1646
To be assignedRECEIVED
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Am	AR	1	de Wied, D., "Melanotropins as Neuropeptides," Ann. NY Acad. Sci. 680:20-28, Springer Press (May 1993).
	AS	1	Gantz, I., et al., "Molecular Cloning of a Novel Melanocortin Receptor," J. Biol. Chem. 268:8246-8250, American Association for Biochemistry and Molecular Biology, Inc. (April 1993).
CU	AT	1	Gantz, I., et al., "Molecular Cloning, Expression, and Gene Localization of a Fourth Melanocortin Receptor," J. Biol. Chem. 268:15174-15179, American Association for Biochemistry and Molecular Biology, Inc. (July 1993).

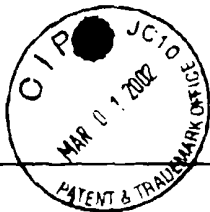
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Claus M. Kf

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FORM PTO-1449

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10/052,545APPLICANT
Wikberg et al.FILING DATE
January 23, 2002GROUP 1646
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

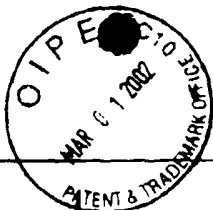
AR	4	Ghanem, G.E., et al., "Evidence for Alpha-Melanocyte-Stimulating Hormone (α -MSH) Receptors on Human Malignant Melanoma Cells," <i>Int. J. Cancer</i> 41:248-255, Alan R. Liss, Inc. (1988).
AS	4	Ghanem, G., et al., "Alpha-Melanocyte-Stimulating Hormone Immunoreactivity in Human Melanoma Metastases Extracts," <i>Pigment Cell. Res.</i> 2:519-523, Alan R. Liss, Inc. (1989).
AT	1	Handelmann, G.E., et al., "Alpha-Melanocyte Stimulating Hormone Facilitates Learning of Visual but not Auditory Discriminations," <i>Peptides</i> 4:145-148, Ankho International Inc. (1983).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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1808.0010002/MAC/MBTAPPLICATION NO.
10/052,545APPLICANT
Wikberg et al.FILING DATE
January 23, 2002GROUP 1646
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	5	Hiltz, M.E. and Lipton, J.M., "Antiinflammatory activity of a COOH-terminal fragment of the neuropeptide α -MSH," FASEB J. 3:2282-2284, Federation of American Societies for Experimental Biology (1989).
AS	5	Hnatowich, D.J., "Antibody Radiolabeling, Problems and Promises," Nucl. Med. Biol. 17:49-55, Pergamon Press plc. (1990).
AT	5	Ho, V.C., et al., "Therapy for cutaneous melanoma: An update," J. Am. Acad. Dermatol. 22:159-176, Mosby (1990).

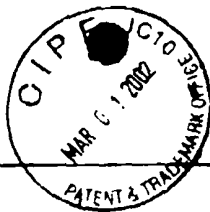
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Chas M. K.

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10/28/03

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FORM PTO-1449		ATTY. DOCKET NO. 1808.0010002/MAC/MBT		APPLICATION NO. 10/052,545		
INFORMATION DISCLOSURE STATEMENT		APPLICANT Wixberg et al.		FILING DATE January 23, 2002		
		GROUP 1646 To be assigned				
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS SUB- CLASS	TRANSLATION
	AL					Yes No
	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
AR	6	Kameyama, K., et al., "Differentiation and the Tumorigenic and Metastatic Phenotype of Murine Melanoma Cells," Int. J. Cancer. 45:1151-1156, Wiley-Liss, Inc. (1990).				
AS	6	Knapp, M.R., et al., "Simultaneous expression of immunoglobulin μ and δ heavy chains by a cloned B-cell lymphoma: A single copy of the V_H gene is shared by two adjacent C δ genes," Proc. Natl. Acad. Sci. USA 79:2996-3000, National Academy of Sciences (1982).				
AT	6	Kobilka, B.K., et al., "An intronless gene encoding a potential member of the family of receptors coupled to guanine nucleotide regulatory proteins," Nature 329:75-79, Macmillan Magazines Ltd. (1987).				
EXAMINER	Clare M. K.			DATE CONSIDERED 10/28/03		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.						



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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO 1805.0010002/MAC/MET	APPLICATION NO 10/052,545
	APPLICANT Wikberg et al.	
	FILING DATE January 23, 2002	GROUP 1646 To be assigned

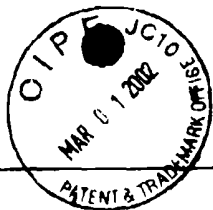
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
all	AR	2	Larson, S.M., "Biologic Characterization of Melanoma Tumors by Antigen Specific Targeting of Radiolabeled Anti Tumor Antibodies," J. Nucl. Med. 32:287-291, Society of Nuclear Medicine (February 1991).				
	AS	2	Levine, N., et al., "Induction of Skin Tanning by Subcutaneous Administration of a Potent Synthetic Melanotropin," J. Am. Med. Assoc. 266:2730-2736, American Medical Association (November 1991).				
an	AT	2	Lewin, R., "When Does Homology Mean Something Else?" Science 237:1570, American Association for the Advancement of Science (1987).				

EXAMINER <i>Chen M. K.</i>	DATE CONSIDERED 10/28/02
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FORM PTO 1449

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ATTY. DOCKET NO.
1808.0010002/MAC/MBTAPPLICATION NO.
13,052,545APPLICANT
Wikberg et al.FILING DATE
January 23, 2002GROUP
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U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

an	AR	8	Liu, M.A., et al., "Hormone Conjugated with Antibody to CD3 Mediates Cytotoxic T Cell Lysis of Human Melanoma Cells," <i>Science</i> 239:395-398, American Association for the Advancement of Science (1988).
	AS	8	Mertz, L.M. and Catt, K.J., "Adrenocorticotropin receptors: Functional expression from rat adrenal mRNA in <i>Xenopus laevis</i> oocytes," <i>Proc. Natl. Acad. Sci. USA</i> 88:8525-8529, National Academy of Sciences (October 1991).
an	AT	8	Mountjoy, K.G., et al., "The Cloning of a Family of Genes That Encode the Melanocortin Receptors," <i>Science</i> 257:1246-1251, American Association for the Advancement of Science (August 1992).

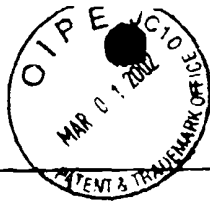
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Chen M. H.

DATE CONSIDERED

10/26/03

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FORM PTC-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1808.0018002/MAC/MET	APPLICATION NO. 10/052,545
	APPLICANT Wikberg et al.	
	FILING DATE January 23, 2002	GROUP 1646 To be assigned

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
aw	AR	2	Murphy, J.R., et al., "Genetic construction, expression, and melanoma-selective cytotoxicity of a diphtheria toxin-related α -melanocyte-stimulating hormone fusion protein," <i>Proc. Natl. Acad. Sci. USA</i> 83:8258-8262, National Academy of Sciences (1986).				
	AS	2	Oki, S., et al., "'v-MSH' Fragments from ACTH- β -LPH Precursor Have an Affinity for Opiate Receptors," <i>Eur. J. Pharmacol.</i> 64:161-164, Elsevier/North-Holland Biomedical Press (1980).				
aw	AT	2	Pawelek, J.M., "Factors Regulating Growth and Pigmentation of Melanoma Cells," <i>J. Invest. Dermatol</i> 66:201-209, Williams & Wilkins Co. (1975).				

EXAMINER <i>Chen M. Kip</i>	DATE CONSIDERED <i>10/28/02</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DORIS NO. 1808.0210002 MAC.MBT APPLICATION NO. 10/052,545

APPLICANT
Wikberg et al.FILING DATE
January 23, 2002GROUP 1646
To be assigned

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

aw	AR	10	Feeck, G.R., et al., "'Homology' in Proteins and Nucleic Acids: A Terminology Muddle and a Way out of it," <i>Cell</i> 50:667, Cell Press (1987).
	AS	10	Schiöth, H.B., et al., "Characterisation of melanocortin receptor subtypes by radioligand binding analysis," <i>Eur. J. Pharmacol.</i> 288:311-317, Elsevier Science B.V. (February 1995).
aw	AT	10	Shimomura, H. and Terada, A., "Primary structure of the rat beta-1 adrenergic receptor gene," <i>Nucl. Acids Res.</i> 18:4331, Oxford University Press (1990).

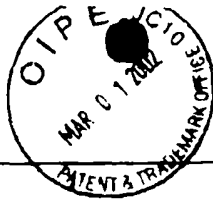
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FORM PTO-1449

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Cen	AR	11	Siegrist, W., et al., "Characterization of receptors for α -Melanocyte-stimulating Hormone on Human Melanoma Cells," <i>Cancer Res.</i> 49:6352-6358, American Association for Cancer Research (1989).
	AS	11	Solca, F., et al., "The Receptor for α -Melanotropin of Mouse and Human Melanoma Cells," <i>J. Biol. Chem.</i> 264:14277-14281, American Society for Biochemistry and Molecular Biology, Inc. (1989).
an	AT	11	Strand, F.L., et al., "Melanotropins as Growth Factors," <i>Ann. NY Acad Sci.</i> 680:29-50, Springer Press (May 1993).

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DATE CONSIDERED

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	12	Sukhanov, V.A., et al., "Melanocyte-Stimulating Hormone (α -MSH) Inhibits the Growth of Human Malignant Melanoma Cells with the Induction of Phosphatidyl Inositol and Myo-Inositol Phosphate Levels," <i>Biochem. Intl.</i> 24:625-632, Academic Press Australia (July 1991).
AS	12	Tatro, J.B. and Reichlin, S., "Specific Receptors for α -Melanocyte-Stimulating Hormone Are Widely Distributed in Tissues of Rodents," <i>Endocrinology</i> 121:1900-1907, Endocrine Society (1987).
AT	12	Tatro, J.B., et al., "Melanotropin Receptors of Murine Melanoma Characterized in Cultured Cells and Demonstrated in Experimental Tumors <i>in Situ</i> ," <i>Cancer Res.</i> 50:1237-1242, American Association for Cancer Research (1990).

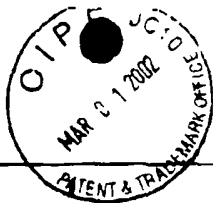
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FORM PTC-1449

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1808.0010002/MAC MBT

APPLICATION NO.
10/052,545

APPLICANT
Wikberg et al.

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

cu	AR	13	Tatro, J.B., et al., "Melanotropin Receptors Demonstrated In Situ in Human Melanoma," J. Clin. Invest. 85:1825-1832, American Society for Clinical Investigation, Inc. (1990).
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Chen M.K.

DATE CONSIDERED

10/25/03

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Page 1 of 15

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1808.0910002/MAC/MBTAPPLICATION NO.
10/052,545APPLICANT
Wikberg et al.FILING DATE
January 23, 2002GROUP 1646
To be assignedRECEIVED
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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aw	AR	14	Veith, J.L., et al., "Effects of MSH/ACTH 4-10 on Memory, Attention and Endogenous Hormone Levels in Women," <i>Physiol. Behav.</i> 20:43-50, Pergamon Press and Brain Research Publ. (1978).
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aw	AT	14	Wen, Z., et al., "Diphtheria Toxin-related α -Melanocyte-stimulating Hormone Fusion Toxin," <i>J. Biol. Chem.</i> 266:12289-12293, American Society for Biochemistry and Molecular Biology, Inc. (July 1991).

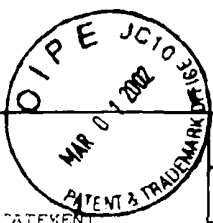
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Page 15 of 16
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1806, 2010002/MAC/MBT	APPLICATION NO. 10/052,545
	APPLICANT WIKBERG et al.	
	FILING DATE January 23, 2002	GROUP <u>1646</u> To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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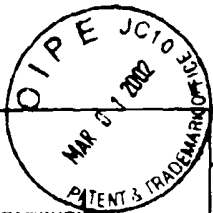
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>15</u>	Wright, M.S., et al., "Cloning strategies for peptide hormone receptors," <i>Acta Endocrinol.</i> 126:97-104, Munksgaard (February 1992).
	AS	<u>15</u>	Partial European Search Report for the corresponding EPO application, European Patent Application No. 01 11 0664, mailed November 8, 2001.
	AT	<u>15</u>	Allowed claims from United States Patent Application No. 08/347,805, Wikberg et al., filed February 21, 1995

EXAMINER <i>Clare M. K.</i>	DATE CONSIDERED <u>10/28/03</u>
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1808.0010002/MAC/MBT

APPLICATION NO.
10/052,545

APPLICANT
Wikberg et al.

FILING DATE
January 23, 2002

GROUP 1646
To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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<i>CW</i>	AR	<u>16</u>	Roselli-Rehuss, L., et al., "Identification of a receptor for γ melanotropin and other proopiomelanocortin peptides in the hypothalamus and limbic system," <i>Proc. Natl. Acad. Sci. USA</i> 90:8856-8860, National Academy of Sciences (October 1993).
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	AT	<u>16</u>	

EXAMINER

Clara M. b

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10/28/02

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